LIVELIHOOD IN SILWA

the winter crop or summer crop respectively. The villagers depend mainly on a kind of clay (nitrous soil) brought from the eastern cliffs as fertilizer, called 'marog'. On camel- or donkey-back it is brought to the fields after a journey of approximately six miles which takes about four hours there and back. The saline properties of 'marog' are recognized by colour and taste. In addition, pigeon and chicken droppings, soil impregnated with stable-dung, and oven-ashes are also used to supplement the 'marog'. Chemical fertilizers are used by only very few people who have neither animals nor children to bring the 'marog', or by those who have so much land for which they could not possibly collect all the required 'marog', and hence have to supplement it by chemical fertilizer. Chemical fertilizer is usually preferred to nitrous clay for the cultivation of cash crops, sugar-cane and cotton, the area of which does not exceed thirty acres for the whole village.

With the help of my informant, Ali, I have tried to calculate the amount of time needed for the entire process of cultivation of both the winter and summer crops. It is obvious that such a task is a somewhat complicated one. However, we took the feddan as the functional unit of measurement and had to assume certain criteria for the labour in the farm unit. We had to answer questions such as: How many hours does a farmer work in the field in a day or during different periods of work? To what extent is the difference in output affected by physical conditions? What tools, implements and animals do we assume to be owned by the farmer for our calculations? How many children are assumed to be working on the farm, and what age groups are represented? However, we agreed to take a family, composed of a father, having two children, aged eight and thirteen, owning a camel, and working on an acre as the basis of our calculations. This unit was not entirely arbitrary, as the average size of the family unit is between five and six persons. To include two boys in such a family is not beyond the law of probability. The age represents one child under compulsory schooling, helping his father in the afternoon, while the other boy has just left school on reaching adolescence, when he can be relied upon to bring the fertilizer from the hill. The camel has been chosen as the median unit for the animal contribution to the farm work. It is true that not every farmer owns a camel, but alternatively he might well have a donkey to bring fertilizer and a cow for ploughing. In this case, he could lend his cow for ploughing to a farmer having a camel, and ask him in return for his camel to help him bringing extra fertilizer. One farmer may possess a plough and a donkey, and thus he can get extra help in conveying fertilizer by lending his plough. If a farmer has a third boy he could send him to help in working with another farmer in return for some needed help. However, every farmer possesses a donkey or a camel for loading as a necessary productive agent in agriculture. Thus the writer feels that the unit chosen is a feasible productive unit, representing the average working conditions.

3: Ayrout M-5 (ca. 1935) 1945
MR13 Fellahin MR13

5. *T.*—Iron ore of excellent quality and in great abundance has recently been discovered in the Western Desert near Aswan; the projected electrification of the Aswan Dam would provide power for smelting it on the spot. The author's original text, which excluded the possibility of far-reaching industrialisation, has accordingly been modified.

6. P. Bovier Lapierre : L'Egypte Préhistorique in Précis d'Histoire d'Egypte, Vol. I, pp. 9-14.

7. Mosséri and Audebeau : The Function of Cracks in the Soil in the Drying and Permanent Purification of the Land in Egypt, in Bulletin de l'Institut d'Egypte, Vol. V (1922-3), pp. 9-19.
A. Demanféon ; Problèmes Actuels et Aspects Nouveaux de la Vie Rurale en Egypte, in Annales de Géographie, Paris, March 1926, pp. 155-173.

8. 'The word sa'id signifies a raised area of land. The same word also means the surface of the soil, good earth, any good area of land. It was applied by the Arabs in the time of Islam to the southern part of Egypt, because this part is raised above the rest of Egypt. The sa'id is also known by the name of the Southern Region.' Maqrîzi : Topographical and Historical Description of Egypt (14th Century).

9. De Morgan : Recherches sur les Origines de l'Egypte, Vol. I, p. 67.

10. A. Moret : The Nile and Egyptian Civilisation, p. 408. 'On the numbers of the population in Pharaonic times the monuments tell us nothing definite. By analogy with modern times one may reckon that Egypt, properly so called, was able to feed eight million inhabitants under the Theban Monarchy.'
Prince Omar Toussoun, in his Mémoires sur les Finances de l'Égypte depuis les Pharaons jusqu'à nos jours, reckons the number at eighteen millions.

11. 'Suffice it to say that a village which once contained 10,000 souls seemed to the passer-by nothing but a rubbish-heap ; sometimes a few solitary people were to